

**Job Title:** BCRTC Test Technologist, Electrical (20180049)

**Full/Part Time:** Full-Time

**Regular/Temporary:** Regular

British Columbia Rapid Transit Company Ltd. (BCRTC) maintains and operates two of Metro Vancouver's three SkyTrain lines on behalf of TransLink, the regional transportation authority. Launched in 1986, SkyTrain is the first and one of the longest, fully-automated, driverless, rapid transit systems in the world. It boasts an average on-time service performance rating of 95 per cent and moves on average 250,000 passengers per weekday.

### Responsibilities

- Works within established procedures and follows approved technical methods in designing and supervising fabrication of prototype equipment and test apparatus with high degree of innovation and creative ability.
- Developing non-destructive examination method for equipment.
- Reviewing and updating equipment/subsystem maintenance manuals.
- Preparing information procedures and instructions to help the Maintenance/Operations personnel prepare request for service.
- Works independently or under the direction of Maintenance Engineering to prepare detail costs estimates, material selection, manpower requirement and schedule for an assigned project.
- Completes assigned tasks to Company or industry standards using approved work practices and procedures.
- Performs in-depth on-line troubleshooting and repair of equipment subsystems in areas of responsibility.
- Prepares test procedures and test requirements to be performed by himself/herself and/or Test Technicians for the purpose of investigating into the causes of equipment/subsystem failure or evaluating system performance level.
- Prepares design sketches or shop drawing for prototype or upgraded equipment or subsystems.
- Performs engineering and scientific calculations using state-of-art computerized facilities.
- Understands the purpose and operation of systems and makes recommendations for hardware or procedural changes that become evident during analysis of system performance data and fault

- Marks up drawings showing changes made or discrepancies found. Initiates formal drawing or document changes with the Document Control Department.
- Performs hands-on operation of specialized test equipment such as data loggers, oscillographic records, analogue and digital storage scopes, sound level equipment, waveform analysers and vibration monitors, and will analyse the test data collected in the field by himself/herself and/or the Test Technicians.
- Develops and prepares technical course material for instructing Maintenance or Operations staff of any specialized prototype equipment/system operation and provides technical information to Test Group in the operations of specialized test equipment.
- Uses tools, gauges and other appropriate instruments to fabricate prototype devices, perform quality inspection of vendor supplied materials and perform hands-on field tests.
- Prepares material/service purchases requisitions for an assigned project.
- Accounts for all materials used and services rendered by outside agencies in accomplishing the assignment.
- Attends technical and safety training programs to continually upgrade skills.
- Operates a motor vehicle with a valid BC driver's license.
- Handles emergencies and failures in accordance with established procedures through immediate response and quick action.
- Performs other related duties as assigned, such being items of a minor nature which do not affect the value of the job.

## Qualifications

### Education and Experience:

- High school graduation or equivalent.
- Red Seal Certification for Industrial Electrician
- Minimum of five (5) years recent maintenance experience in the last 6 years at the journeyman level.
- Experience in the maintenance and repair of 12.5 kV and/or 25 kV AC electrical switchgear, transformers, protection relays and associated controls.
- Experience in 600 VAC distribution equipment and associated control circuits.

#### Other Requirements:

- Knowledge of the relevant electrical codes that ensure a safe working and operating environment.
- Preference will be given to applicants with experience in maintenance and repair of 600 VDC propulsion power substation rectifiers, switchgear and associated controls.
- Experience with large uninterruptable power supply units is an asset.
- Experience with electronic circuits and high power semiconductor devices are an asset.
- Experience with programmable logic controllers is an asset.
- Experience in electrical construction work is an asset.
- Experience in trouble shooting electrical or electronic circuits utilizing a memory recorder is an asset.
- Capital project support work may be required.
- Shift work is required.
- Valid BC Class 5 Driver's License.

#### Other Information

Recruitment Process: An applicant will be required to demonstrate their suitability for this position by meeting the minimum level of qualifications and experience in order to be invited into the selection process. A standard interview format will be used including general, scenario and behavioural descriptive interview questions.

Comprehensive and competitive benefits plan, including participation in BC Public Service Pension Plan

Medical Assessments of Fitness for Duty

In accordance with the Canadian Railway Safety Act – Railway Medical Rules: Section 3.2, employees who work in or transfer into safety sensitive or safety critical positions are required to undergo pre-placement and periodic medical assessments that evaluate the impact, if any, of medical conditions on fitness for work.

#### Work Schedule

40 hours per week

#### How to Apply

Please go to <http://www.translink.ca/careers> to apply for this position and view instructions on the process.

**INSTRUCTIONS:** Please save your (1) cover letter and your (2) resume as one pdf document prior to uploading your application on-line.

Please note that only those short listed will be contacted.

Having trouble applying? Please view the System Requirements & FAQ's by going to <http://www.translink.ca/careers>

***British Columbia Rapid Transit Company is an equal opportunity employer.***